User Manual

EzLogger WiFi

Ver 02

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1、Symbols

	Caution! - Failure to observe a warning indicated in this manual may result injury.
	Product should not be disposed as household waste.
	This side up; the package must always be transported, handled and stored in such a way that the arrows always point upwards.
	Components of the product can be recycled.
	Fragile; the package/product should be handled carefully and never be tipped over or slung.
	Keep dry; the package/product must be protected from excessive humidity and must be stored under cover.
	CE Mark

2、Safety

The EzLogger WiFi strictly conforms to related safety rules in design and test. Safety regulations relevant to the location shall be followed during installation, commissioning, operation and maintenance. Improper operation may cause serious injury, electric shock and/or damage to the equipment and property.

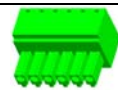
- Ensure children are kept away from EzLogger WiFi.
- Do not open the front cover of the EzLogger WiFi. Apart from performing work at the wiring terminal (as instructed in this manual), touching or changing components without authorization may cause injury to people, damage to EzLogger WiFi and annulment of the warranty.
- Static electricity may damage electronic components. Appropriate methods must be adopted to prevent such damage to the EzLogger WiFi; otherwise the EzLogger WiFi may be damaged and the warranty annulled.

3、Installation

3.1 Unpacking

When you receive the EzLogger WiFi, please check for external damage to the EzLogger WiFi and any accessories. Please also check that the following are included:

EzLogger WiFi. 1
Power Adapter. 1
Fixing Bracket. 2
Screw M3*8 4
Mini USB Cable. 1
Micro SD Card 1
Antennae. 1
Warranty Card 1
Flash Disk. 1
Connector.. 1

EzLogger Wifi	Power Adapter	Fixing Bracket	Screw M3*8
Mini USB Cable	Micro SD Card	Antennae	Warranty Card
Flash Disk	 Connector		

3.2 Appearance and Size

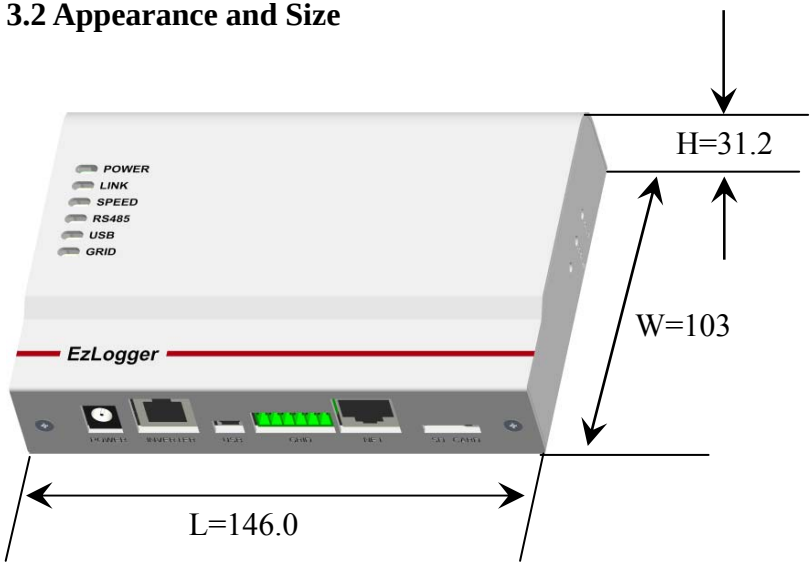


Figure 3.2.1

3.3 Equipment Installation

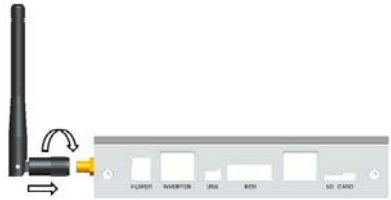
3.3.1 Selecting the installation position

The following must be considered when selecting the best location for an EzLogger WiFi:

- Indoor use only.
- The mount and installation method must be suitable for the EzLogger WiFi's weight and dimensions.
- The location must be well ventilated and sheltered from direct sunlight.
-

3.3.2 Mounting Procedure

Screw on the antennae at first:



Step 1 : Assemble EzLogger and Fixing Bracket as shown in the Graph 3.3.2-1, and tighten them by Screws M3*8 in the accessory bag.

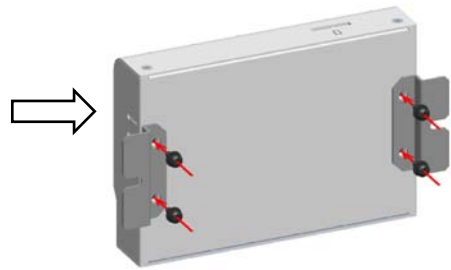


Figure 3.3.2-1

Step 2 : Tighten EzLogger by Screws φ4*12. Installation dimensions are shown in the Graph 3.3.2-2.

Figure 3.3.2-2

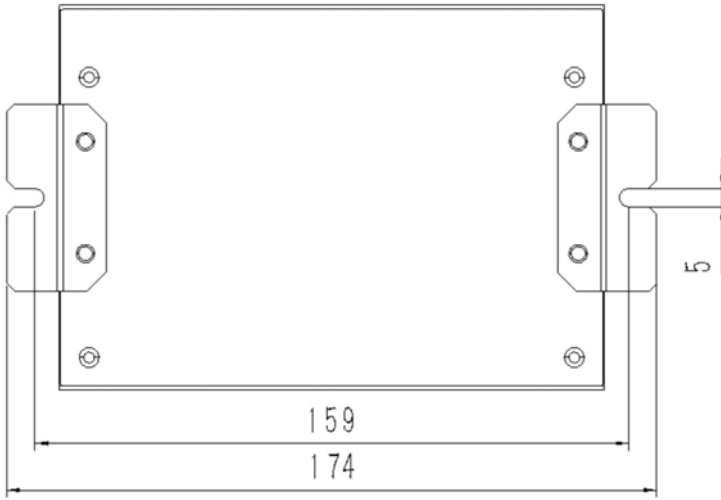


Figure 3.3.2-3

Size of installation plate EzLogger WiFi

3.4 Electrical Connection

3.4.1 Interface Instruction

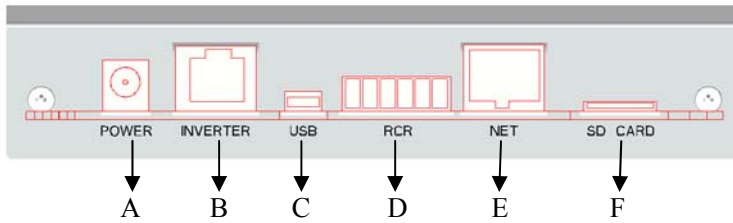


Figure 3.4.1

A	Adapter Socket
B	RS485 RJ45 Socket (connects to inverter)
C	USB port Socket
D	6pin Terminal Socket
E	LAN RJ45 Socket, Reserved for future
F	Micro SD Card Socket

Table 3.4.1

Notice: Unpack the micro SD card and insert it to the socket (F)

	Please do not confuse interface B and E as this will lead to damage to EzLogger!

Note: Interface socket B should be connected to the inverter. Interface socket E is reserved for future, keep it unconnected. If these sockets are not connected correctly, it may cause damage to the EzLogger.

3.4.2 Configure EzLogger WiFi

A WiFi router device is essential for internet connection. Be sure to keep the EzLogger WiFi in the area that WiFi signal could reach. And configure WiFi follow the instruction of document named "WiFi Configuration" in the flash disk.

Here the configuration of EzLogger WiFi is completed.

3.4.3 Make Up The Cable Daisy Chain Connection

Step1: First of all, make up cables

NOTICE: In order to implement waterproof, the cables should be made up by hand strictly obey the guidance in manual of inverter.

The line sequence of both plugs of RS485 cable should be made up **same** as shown in Fig3.4.3.1.

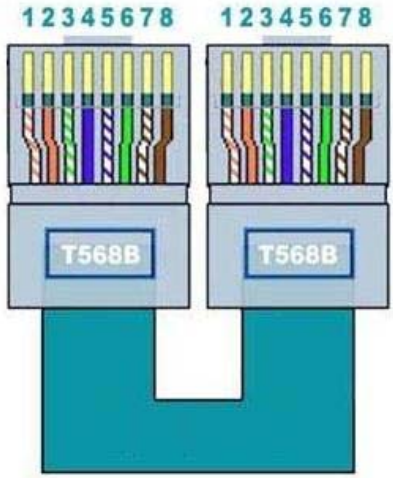


Fig3.4.3.1 Line sequence

The line sequence in both RJ45 plugs should obey TIA/EIA-568B criterion strictly, from 1 to 8 as below:

Line	**Color**	**Line**	**Color**
1	Orange & White	5	Blue & White
2	Orange	6	Green
3	Green & White	7	Brown & White
4	Blue	8	Brown

Besides that, each cable should be tested by LAN cable tester to

ensure the cable is OK. These cables will be used to connect not only EzLogger and inverter but also inverter and inverter.

Step2: Check the cable daisy chain

The whole system should be made up as shown in below Fig3.4.3.2.

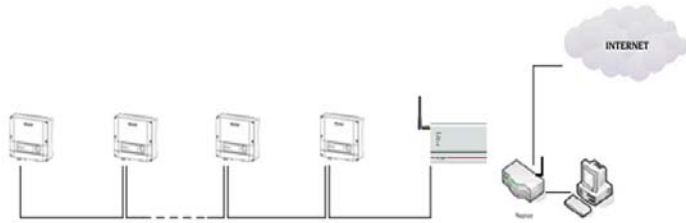


Fig3.4.2.2. Whole system connection diagram

NOTICE: For DT series model, the plugs of the cable shall be from standard accessory box delivered along with the Inverter.

Before complete the whole connection, it should be tested as below: Test the connection from plug 1a to plug (N+1)b as shown in Fig3.4.3.3. If everything is ok, the LAN cable tester will tell the line 3/6/7/8 is OK. **Neglect the status of line 1/2/4/5** because the line1 is shorted to line2 and line4 is shorted to line5 in inverter.

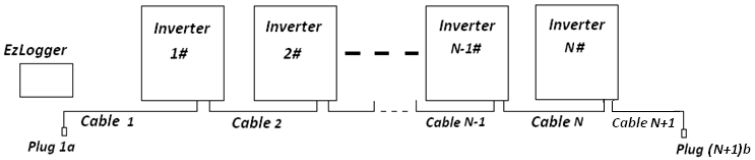


Fig3.4.3.3. Check the whole RS485 cable connection

If the line 3/6/7/8 is not ok, please pull out the plug Nb from inverter N#, and test the connection from plug1a to plug Nb, as

shown in Fig3.4.3.4.

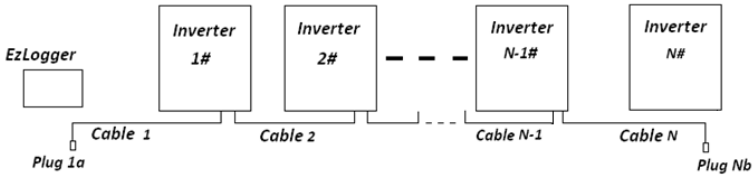


Fig3.4.3.4. Check the connection between 1a and Nb

If the test result is ok, it means there is something wrong with inverter N#. First re-check cable N+1 using LAN cable tester and make sure it is OK and insert the plug back into inverter N#. Then insert plug Nb into inverter N#, and pull out plug Na from inverter (N-1)# as shown in Fig3.4.3.5. Check and make sure the connection of plugs and sockets is firmly good. Then test the connection between plug Na and plug (N+1)b. If the connection is OK, insert plug Na into inverter (N-1)#. Then re-test connection from plug 1a to plug (N+1)b and the result will pass.

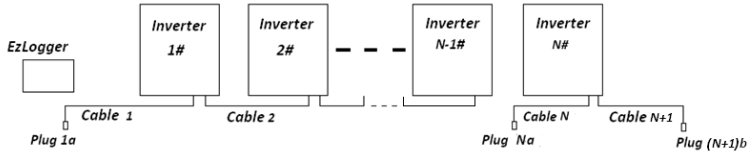


Fig3.4.3.5. Check the connection between Na and (N+1)b

Repeat steps above can find the bug and then fix it one by one until the whole daisy chain connection is ok.

At last pull out cable N+1 from inverter N# and fasten the cover and then insert plug1a to EzLogger.

Step3: Power on the EzLogger and all inverters. Observe the

status of LED indicators on top cover of EzLogger.

We need to check the communication protocol of inverter according to the user manual. It needs to be set as '.VS. Monitor Device' for SS/DS model and as 'Set ModBus' for DT model and as 'Set Web' for Smart DT model. If everything is OK, it should be like below:

Power led: always on

If not, check the power supply adaptor of EzLogger.

Speed Led: always on after the EzLogger WiFi joins to the WiFi network.

If not, check the configuration of EzLogger WiFi and the connection between EzLogger WiFi and WiFi router.

RS485 Led: flashes every 3 minutes.

If not, it means the communication between EzLogger and inverters is not OK. Please re-check the connection of the cable daisy chain and check the communication protocol of inverter according to the user manual. It needs to be set as '.VS. Monitor Device' for SS/DS model and as 'Set ModBus' for DT model and as 'Set Web' for smart DT model.

Link Led: flashes every 9 minutes

It means EzLogger WiFi sends data to portal normally.

If not, check the access to internet of the WiFi router and the firewall setting of it.

3.4.4 Registration in Web Portal

Browse *http://www.goodwe-power.com*, and click the "Register" button. Select "End User" as user type, and fill in the register table and the registration is completed.

3.4.5 Create PV Station in Web Portal

Fill in the table of the "New Station" web page according to the actual location of your station. In the "Maintain EzLogger/EzMonitor" column, enter the information of the EzLogger WiFi including S/N and Check Code, and click "Add" button. Then enter the information of the inverter that is connected with the EzLogger WiFi including S/N, Check Code, Type and Description, and click "Add" button.

If you have several inverters connected with EzLogger WiFi, you need to enter their information one by one.

Click "Create Station" after you fill in all the information needed, and then everything is OK now. Then switch on the inverters and several minutes later you can view the data of inverter in web portal.

NOTICE: you can find S/N and Check Code on the back side of EzLogger WiFi and right side of inverter.

NOTICE: ONLY THE DATA OF INVERTER WHOSE INFORMATION ENTERED CORRECTLY IN THE WEBSITE CAN BE VIEWED.

4、Indicator Lights

There are 6 indicator lights on left side of the front cover of EzLogger WiFi.

Label	Light On	Light Off	Colour
POWER	Powered on	Powered off	Green
SPEED	Joined to WiFi network	Disconnected from WiFi network	Yellow
RCR	Received command from RCR	No command from RCR	Yellow

Table 4-1

Label	Flickering	Light Off	Colour
LINK	Communicates with Portal	Data Interval	Yellow
RS485	Communicates with Inverter	Data Interval	Yellow
USB	File Transmission to PC	No File Transmission	Yellow

Table 4-2

5、Operation with ripple control receiver

The EzLogger WiFi can be connected with ripple control receiver (RCR for short) and executes the command from it.

5.1 Connection with RCR

Pick up the 6-pin terminal plug like below:

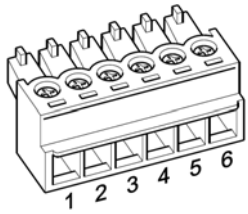


Figure 5.1-1

Pin	Allocation	Description
1	D.IN.1	Level 1(60%)
2	D.IN.2	Level 2(30%)
3	D.IN.3	Level 3(0%)
4	D.IN.4	0.95 Lagging
5	D.IN.5	0.90 Lagging
6	GND	

Table 5.1

Fabricating the cable using the terminal plug and connects with RCR according the description and the type of RCR. Below is a sample:

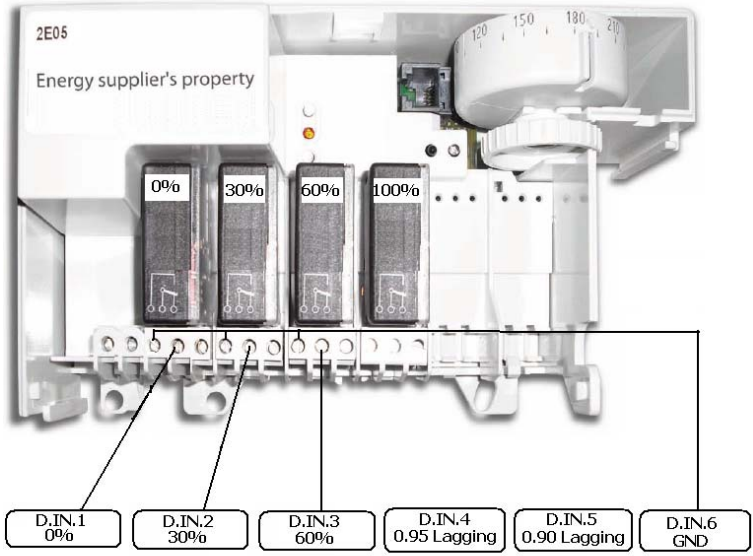


Figure 5.1-2

5.2 Operation with RCR

Just keep the connection between EzLogger WiFi and RCR stable, and both powered on. Then you need not do anything else. The EzLogger WiFi will execute the command from RCR automatically.

6、Reset and Reload EzLogger WiFi

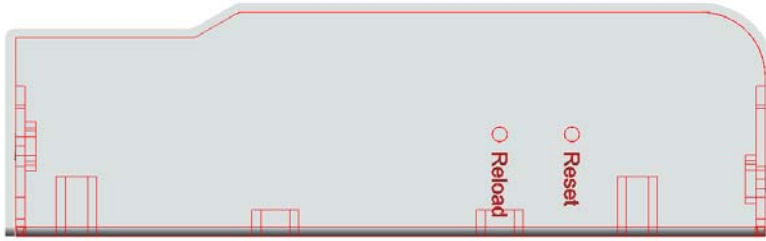


Figure 6

There are two buttons in the right side of EzLogger.

One is the Reset button, press this button to restart the EzLogger .

The reload button is used to reload the default configuration of network parameter of EzLogger. Press this button longer than 3 seconds to the change the EzLogger to default configuration.

Notice: All configurations have to be set once again after using reload function.

7、Technical Parameters

7.1 Operation Conditions

EzLogger WiFi can be installed indoor only; it will cause damage if it runs out of range of following conditions:

Input Voltage	9 VDC
Input Current	500m A
Power Consumption	4 W
Operating Temperature Range	-20～60°C
Humidity Range	0% - 95%

Table 7.1

7.2 Operation Limitation

Communication Interface	Communication Mode	Distance Limitation
RS485	RJ45	MAX. 800 m Cable
USB Port	MiniUSB_B	MAX. 2 m Cable
WiFi	WiFi	MAX. 10m without barrier

Table 7.2

7.3 Data Storage

The data of inverter is storage as csv format files in micro SD card. Its capacity is 8GB which is only available for data of 20 inverters not longer than 3 years. When the space is using up, the oldest data files will be deleted. And you can download the csv file via a micro SD card reader or the USB cable.

8、Certificates

Figure 8